- * =mandatory field)
 - Investigator:*
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- Dataset Info:*
 - Dataset ID*: GraysRf 81W 31N Jul2006 Jun2007
 - Submission Dates:*
 - Initial_Submission: 20120522 (YYYYMMDD)Revised Submission: (YYYYMMDD)
- Cruise_Info:*
 - o Experiment:
 - Experiment_Name*:
 - Cruise:()
 - Cruise ID: (EXPOCODE)
 - Section: (Leg)
 - Geographical_Coverage:*
 - Geographical_Region:
 - Bounds:
 - Westernmost_Longitude: Enter decimal fractions of degrees: or Degrees, Minutes, Seconds:
 - Easternmost_Longitude:
 Enter decimal fractions of degrees: 80.87(+ = E, = W)
 or Degrees, Minutes, Seconds:
 - Northernmost_Latitude:

Enter decimal fractions of degrees: +31.40 (+ = E, - = W)

Southernmost_Latitude:
 Enter decimal fractions of degrees:

Temporal_Coverage:

Start_Date: 20060718 (YYYYMMDD)
 End_Date: 20070626 (YYYYMMDD)

- Vessel:* Mooring platform
 - Vessel_Name:
 - Vessel_ID:
 - Country:
 - Vessel Owner:
- Variables Info:*
 - o Variable:
- Variable Name and Description*:
- xCO₂ SW (wet) (umol/mol) Mole fraction of CO₂ in air in equilibrium with the seawater at sea surface temperature and measured humidity.
- CO2 SW QF Quality Flag for xCO₂ SW (wet).
- H₂O SW (mmol/mol) Mole fraction of H₂O in air from equilibrator.
- xCO₂ Air (wet) (umol/mol) Mole fraction of CO₂ in air from airblock, 4 feet above the sea surface at measured humidity.
- CO2 Air QF Quality Flag for xCO₂ Air (wet)
- H₂O Air (mmol/mol) Mole fraction of H₂O in air from airblock, 4 feet above the sea surface.

- Licor Atm Pressure (hPa) Atmospheric pressure at the airblock, 4 feet above the sea surface
- Licor Temp (C) Temperature of the Infrared Licor 820 in degrees Celsius
- % O₂ The percent oxygen of the surface seawater divided by the percent oxygen of the atmosphere at 4 feet above the sea surface. Disclaimer: The oxygen measurement is made in the equilibrated air. We have found that the oxygen does not come to complete equilibrium so any rapid changes in oxygen do not get properly captured using this system. Therefore, we tend to use the oxygen data only as a qualitative sense of the biology. It is not a quantitative measure.
- SST (C) Sea Surface Temperature measured by CTD (MicroCAT C-T Recorder). Temperature data is
 internally recorded and collected during the equilibration period. Data not post-calibrated. Annual drift for
 this deployment was minimal and does not impact the fCO₂ calculation (within the degree of accuracy of
 the CO₂ measurement). Contact us if you would like the CTD post-calibration information.
- Salinity Sea Surface Salinity measured by CTD (MicroCAT C-T Recorder). Conductivity data is internally recorded and collected during the equilibration period. Data not post-calibrated. Annual drift for this deployment was minimal and does not impact the fCO2 calculation (within the degree of accuracy of the CO2 measurement). Contact us if you would like the CTD post-calibration information.
- xCO₂ SW (dry) (umol/mol) Mole fraction of CO₂ in air in equilibrium with the seawater at sea surface temperature (dry air).
- xCO₂ Air (dry) (umol/mol) Mole fraction of CO₂ in air at the airblock, 4 feet above the sea surface (dry air).
- fCO₂ SW (sat) uatm Fugacity of CO₂ in air in equilibrium with the seawater at sea surface temperature (100% humidity). Since the measurements are taken at the sea surface, warming calculations are not necessary.
- fCO₂ Air (sat) uatm Fugacity of CO₂ in air at the airblock, 4 feet above the sea surface (100% humidity).
- dfCO₂ Difference of the fugacity of the CO₂ in seawater and the fugacity of the CO₂ in air (fCO₂ SW fCO₂ Air).
- Method_Description:*
 - Equilibrator_Design:

Equilibrator Type: (show pick list)

Bubble Equilibrator

Equilibrator_Volume: (L) N/AWater_Flow_Rate: (L/min) N/A

Headspace Gas Flow Rate: (L/min) ~600 cc/min

Vented: (show pick list) Yes

 Measurement_Method: Absolute, non-dispersive infrared (NDIR) gas analyzer

 Manufacturer_of_Calibration_Gas:
 NOAA Earth System Research Laboratory (ESRL)

o CO₂_Sensors:

CO₂_Sensor:

Manufacturer: Licor
 Model: Environmental_Control: LI-820
 Resolution: 0.01 ppm

Uncertainty: < 2.5% of reading with 14 cm bench (stated)

<1.5 ppm determined in lab

 CO₂_Sensor_Calibration: (For each calibration gas, document traceability to an internationally recognized scale, including date and place of last calibration. Include uncertainty of assigned value.)

At the beginning of each sample, the instrument self-calibrates using a zero and high standard. The zero standard is generated by cycling a small amount of air through a soda lime chamber. The high standard is from a cylinder of calibrated standard reference gas, 504.3 umol/mol from ESRL. ESRL

standards are traceable to WMO x93 scale with a stated reproducibility of 0.06 micromole/mole.

Other_Sensors:Oxygen Sensor

Manufacturer: Maxtec
 Model: Max-250
 Resolution: 0.01 %

Uncert-ainty: ± 2.0% Full Scale over operating temperature

range

± 1.0% Full Scale @ constant temperature and

pressure

 Calibration: (For each sensor of pressure, temperature, and salinity, document traceability to an internationally recognized scale, including date and place of last calibration.)

Factory calibrated before purchase. Recalibrated to sea level atmospheric air every 7 days.

Other_Sensors: Humidity Sensor

Manufacturer: Sensirion
 Model: SHT71
 Resolution: 0.01 %

Uncertainty: Measurement range: 0-100% RH

Absolute. RH accuracy: +/- 3% RH (20-80% RH)

Repeatability RH: +/- 0.1% RH

 Calibration: (For each sensor of pressure, temperature, and salinity, document traceability to an internationally recognized scale, including date and place of last calibration.)

Factory calibrated before purchase.

Method_References: (Publication(s) describing method)

Sabine, C. (2005): High-resolution ocean and atmosphere pCO₂ time-series measurements. The State of the Ocean and the Ocean Observing System for Climate, Annual Report, Fiscal Year 2004, NOAA/OGP/Office of Climate Observation, Section 3.32a, 246–253.

Additional Information

- All measurements are at sea surface temperature and atmospheric pressure.
- During the equilibration cycle, a closed loop of air equilibrates with seawater for 10 minutes. Once the equilibration period is complete, the pump stops and the system opens to the atmosphere allowing the pressure to equilibrate with atmospheric pressure. Measurements are recorded for 30 seconds at 2 hertz and then averaged.
- During the air cycle, fresh air is pumped through the detector for 1 minute. Once the pump stops, the system opens to the atmosphere allowing the pressure to equilibrate with atmospheric pressure. Measurements are recorded for 30 seconds at 2 hertz and then averaged.
- The gas streams for both the air cycle and equilibrator cycle are partially dried before entering the detector. The values listed as wet xCO₂ generally have relative humidity levels ranging from 40 to 80 percent. The humidity levels increase over the course of a deployment.
- Sampling occurs every 3 hours. The infrared detector is calibrated at the beginning of every sampling period. Averaged data and standard deviations for each measurement are transmitted back daily.
- To calculate the dry measurements, the water mole fraction in the Licor detector must be known. A relative humidity sensor is located immediately downstream of the detector.

- As part of the QC process, each data set is compared with the Marine Boundary Layer (MBL) data from GlobalView- CO_2 . The data from this deployment were 5.0 \pm 7.4 umol/mol on average of the MBL data and therefore no correction was applied.

GLOBALVIEW-CO 2: Cooperative Atmospheric Data Integration Project - Carbon Dioxide. CD-ROM, NOAA ESRL, Boulder, Colorado [Also available on Internet via anonymous FTP to ftp.cmdl.noaa.gov, Path: ccg/co2/GLOBALVIEW], 2010

- -During the QC process, an adjustment to the Licor pressure is typically made based on each sensor's bias to barometric pressure as measured in the lab. For this system, the Licor pressure was adjusted by +0.1 kPa.
- No data = -9.999 or -999
- Data_set_References: (Publication(s) describing data set)

 None
- Citation: (How to cite this data set) Sabine, C., A. Sutton, W.-J. Cai, S. Noakes, S. Musielewicz, S. Maenner, and R. Bott. 2012. High-resolution ocean and atmosphere pCO2 time-series measurements from Gray's Reef mooring.
- Data_Set_Link:
- URL*: http://www.pmel.noaa.gov/co2/story/Grays+Reef
- Label*:PMEL CO2 Group Gray's Reef mooring

 Link_Note: (Optional instructions or remarks)(m s t)

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Quality Flags definitions:

- 2 = Acceptable measurement;
- 3 = Questionable measurement;
- 4 = Bad measurement
- 5 = Not reported;
- 9 = Sample not drown for this measurement from this bottle.

Quality Flag Log for this dataset.

Date	Measurement	Value (Dry)	Flag	Comme	ents
7/22/2006 21:1	6 xCO2	_SW	448.24	89467	4	bad CO2 sw measurement due to equilibrator
pressure proble	m					
7/24/2006 21:1	6 xCO2	_SW	416.87	35425	3	likely bad CO2 sw measurement due to
equilibrator pres	ssure problem					
7/25/2006 0:16	xCO2_SW	419.28	47201	3	likely ba	ad CO2 sw measurement due to equilibrator
pressure proble	m					
9/11/2006 21:1	6 xCO2	_SW	521.17	73489	4	bad CO2 sw measurement due to equilibrator
pressure proble	m					
10/12/2006 3:1	6 xCO2	_SW	388.70	30038	3	CO2 data submitted was adjusted by + 5 ppm b/c
span calibration	was off as pre	dicted by	change	in Licor	tempera	ture
10/12/2006 3:1	6 xCO2	_Air	381.68	10787	3	CO2 data submitted was adjusted by + 5 ppm b/c
span calibration	was off as pre	dicted by	change	in Licor	tempera	ture
10/16/2006 3:1	6 xCO2	_SW	362.46	28281	3	CO2 data submitted was adjusted by + 5 ppm b/c
span calibration	was off as pre	dicted by	change	in Licor	tempera	ture
10/16/2006 3:1	6 xCO2	_Air	380.83	35389	3	CO2 data submitted was adjusted by + 5 ppm b/c
span calibration	was off as pre	dicted by	change	in Licor	tempera	ture
10/20/2006 3:1	-			11939	_	CO2 data submitted was adjusted by + 5 ppm b/c
span calibration	was off as pre	dicted by	change	in Licor	tempera	ture

10/20/2006 3:16	xCO2_Air	388.4421732	3	CO2 data submitted was adjusted by + 5 ppm b/c
span calibration was off		change in Licor	tempera	ature
10/24/2006 0:16	xCO2_SW	377.174748	4	bad CO2 sw measurement due to equilibrator
pressure problem	000 011	000 0570040		
10/24/2006 6:16	xCO2_SW	382.3578643	4	bad CO2 sw measurement due to equilibrator
pressure problem 10/28/2006 0:16	xCO2_SW	270 1124027	4	had CO2 aw massurament due to equilibrator
pressure problem	XCO2_3VV	370.1124037	4	bad CO2 sw measurement due to equilibrator
10/28/2006 3:16	xCO2_SW	348.4470272	4	bad CO2 sw measurement due to equilibrator
pressure problem	XCO2_0VV	340.4470272	7	bad 602 sw measurement due to equilibrator
11/4/2006 6:16 xCO2_	SW 356.81	14397 4	bad CO	O2 sw measurement due to equilibrator pressure
problem				
11/5/2006 9:16 xCO2_	SW 350.70	93625 4	bad CO	D2 sw measurement due to equilibrator pressure
problem				
11/21/2006 3:16	xCO2_SW	375.3196033	4	bad CO2 sw measurement due to equilibrator
pressure problem				
11/21/2006 6:16	xCO2_SW	316.5620995	4	bad CO2 sw measurement due to equilibrator
pressure problem	000 011	050 0000700		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
11/21/2006 9:16	xCO2_SW	353.6620792	4	bad CO2 sw measurement due to equilibrator
pressure problem 11/21/2006 12:16	vCO2_CW	227 0207402	4	had CO2 ay massurament due to equilibrator
pressure problem	xCO2_SW	327.0287183	4	bad CO2 sw measurement due to equilibrator
11/21/2006 15:16	xCO2_SW	368.4553637	4	bad CO2 sw measurement due to equilibrator
pressure problem	X002_0VV	300.4333037	7	bad 602 3W measurement due to equilibrator
11/24/2006 12:16	xCO2 SW	281.3096009	3	CO2 data submitted was adjusted by - 8 ppm b/c
span calibration was of			tempera	
11/24/2006 12:16	xCO2_Air	391.9680018	3	CO2 data submitted was adjusted by - 8 ppm b/c
span calibration was of		change in Licor	tempera	
12/9/2006 12:16	xCO2_SW	288.0282543	3	CO2 data submitted was adjusted by - 6 ppm b/c
span calibration was off				
12/9/2006 12:16	xCO2_Air	388.3216203	3	CO2 data submitted was adjusted by - 6 ppm b/c
span calibration was off				
1/12/2007 18:16	xCO2_SW	319.7833692	3	CO2 data submitted was adjusted by - 3 ppm b/c
span calibration was off 1/12/2007 18:16	xCO2 Air	386.2272332	3	CO2 data submitted was adjusted by - 3 ppm b/c
span calibration was of	_		_	
1/15/2007 6:16 xCO2_				ata submitted was adjusted by - 3 ppm b/c span
calibration was off as pr				у година постория постор
1/15/2007 6:16 xCO2_		31475 3		ata submitted was adjusted by - 3 ppm b/c span
calibration was off as pr	redicted by chan	ge in Licor temp		
3/10/2007 0:16 xCO2_	SW 367.79	8562 4	bad CC	D2 sw measurement due to equilibrator pressure
problem				
4/7/2007 6:16 xCO2_	SW 396.25	12534 4	bad CC	O2 sw measurement due to equilibrator pressure
problem	014	70700 4	1 - 100	20
4/7/2007 9:16 xCO2_	SW 385.23	79789 4	bad CC	O2 sw measurement due to equilibrator pressure
problem 4/12/2007 18:16	xCO2_SW	429.4057905	4	bad CO2 sw measurement due to equilibrator
pressure problem	XCO2_3VV	429.4057905	4	bad CO2 sw measurement due to equilibrator
4/15/2007 9:16 xCO2_	SW 448.86	32851 4	had CC	O2 sw measurement due to equilibrator pressure
problem	.000	02001	buu o c	52 ow modelioment add to equilibrater procedure
4/15/2007 12:16	xCO2_SW	432.656506	4	bad CO2 sw measurement due to equilibrator
pressure problem	_			'
4/15/2007 18:16	xCO2_SW	430.5457173	4	bad CO2 sw measurement due to equilibrator
pressure problem				
4/16/2007 0:16 xCO2_	SW 420.32	80706 4	bad CC	O2 sw measurement due to equilibrator pressure
problem	014	04004		20
4/16/2007 3:16 xCO2_	SW 419.04	61691 4	bad CC	O2 sw measurement due to equilibrator pressure
problem				

4/46/2007 6:46 vCO2	CIM	421.468	20447	4	had CC	22 aw magguramant dua ta aquilibratar proceura
4/16/2007 6:16 xCO2_5 problem	SVV	421.400	59447	4	bad CC	O2 sw measurement due to equilibrator pressure
4/16/2007 15:16 pressure problem	xCO2_	SW	425.91	73496	4	bad CO2 sw measurement due to equilibrator
4/16/2007 18:16	xCO2_	SW	418.27	11348	4	bad CO2 sw measurement due to equilibrator
pressure problem 4/20/07 9:16 xCO2_9	SW	388.74	63187	4	bad CC	02 sw measurement due to equilibrator pressure
problem 4/27/2007 3:16 xCO2_	SW	329.25	74528	3	likely b	ad CO2 sw measurement due to equilibrator
pressure problem 4/27/2007 6:16 xCO2_	SW	331.770	01318	3	likely b	ad CO2 sw measurement due to equilibrator
pressure problem 4/27/2007 9:16 xCO2_	SW	330.47	39046	3	likely b	ad CO2 sw measurement due to equilibrator
pressure problem 4/27/2007 12:16	xCO2_	SW	335.70	34294	3	likely bad CO2 sw measurement due to
equilibrator pressure pro 4/27/2007 15:16	oblem xCO2_	SW	328.42	62171	3	likely bad CO2 sw measurement due to
equilibrator pressure pro 4/27/2007 18:16	oblem xCO2_	SW	335.37	89153	3	likely bad CO2 sw measurement due to
equilibrator pressure pro	oblem xCO2_	SW	325.71	05161	3	likely bad CO2 sw measurement due to
equilibrator pressure pre 4/28/2007 0:16 xCO2_5	oblem	303.73°		3		ad CO2 sw measurement due to equilibrator
pressure problem 4/28/2007 3:16 xCO2_5		312.463		3		ad CO2 sw measurement due to equilibrator
pressure problem 4/28/2007 6:16 xCO2_6		323.33		3		· ·
pressure problem						ad CO2 sw measurement due to equilibrator
4/28/2007 9:16 xCO2_s pressure problem	SVV	325.71	76538	3	іікеіу б	ad CO2 sw measurement due to equilibrator
4/28/2007 12:16 equilibrator pressure pre	xCO2_	SW	322.91	22227	3	likely bad CO2 sw measurement due to
4/28/2007 15:16	xCO2_	SW	322.82	71295	3	likely bad CO2 sw measurement due to
equilibrator pressure pro 4/28/2007 18:16	xCO2_	SW	326.22	70814	3	likely bad CO2 sw measurement due to
equilibrator pressure pro 4/28/2007 21:16	xCO2_	SW	322.01	09587	3	likely bad CO2 sw measurement due to
equilibrator pressure pro 4/29/2007 0:16 xCO2_		313.65	3683	3	likely b	ad CO2 sw measurement due to equilibrator
pressure problem 4/29/2007 3:16 xCO2_	SW	312.679	97374	3	likely b	ad CO2 sw measurement due to equilibrator
pressure problem 4/29/2007 6:16 xCO2_	SW	313.53	54546	3	likely b	ad CO2 sw measurement due to equilibrator
pressure problem 4/29/2007 9:16 xCO2_		310.659	99059	3	_	ad CO2 sw measurement due to equilibrator
pressure problem 4/29/2007 12:16	xCO2		309.52		3	likely bad CO2 sw measurement due to
equilibrator pressure pro		,011	000.02	00102		mony bad 002 of mododromon duo to
4/29/2007 15:16 equilibrator pressure pro	xCO2_	SW	311.92	4645	3	likely bad CO2 sw measurement due to
4/29/2007 18:16	xCO2_	SW	333.68	13722	3	likely bad CO2 sw measurement due to
equilibrator pressure pro 4/29/2007 21:16	oblem xCO2_	SW	328.30	69319	3	likely bad CO2 sw measurement due to
equilibrator pressure pre 4/30/2007 0:16 xCO2_		309.46	38606	3	likely b	ad CO2 sw measurement due to equilibrator
pressure problem 4/30/2007 3:16 xCO2_		302.248		3		ad CO2 sw measurement due to equilibrator
pressure problem						

4/30/2007 6:16 xCO2_SW	302.6227249	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 4/30/2007 9:16 xCO2_SW	310.0333965	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 4/30/2007 12:16 xCO2_	SW 312.37	08383	3 likely bad CO2 sw measurement due to
equilibrator pressure problem 4/30/2007 15:16 xCO2		04066	3 likely bad CO2 sw measurement due to
equilibrator pressure problem			•
4/30/2007 18:16 xCO2_ equilibrator pressure problem	SW 337.11	61727	3 likely bad CO2 sw measurement due to
4/30/2007 21:16 xCO2_	SW 326.62	52681	3 likely bad CO2 sw measurement due to
equilibrator pressure problem 5/1/2007 0:16 xCO2_SW	307.2773788	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/1/2007 3:16 xCO2 SW	308.9031375	3	likely bad CO2 sw measurement due to equilibrator
pressure problem			
5/1/2007 6:16 xCO2_SW pressure problem	318.0210238	3	likely bad CO2 sw measurement due to equilibrator
5/1/2007 9:16 xCO2_SW pressure problem	321.6340086	3	likely bad CO2 sw measurement due to equilibrator
5/1/2007 12:16 xCO2_SW	327.1243002	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/1/2007 15:16 xCO2_SW	320.9294357	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/1/2007 18:16 xCO2_SW	313.2959039	3	likely bad CO2 sw measurement due to equilibrator
pressure problem			
5/1/2007 21:16 xCO2_SW pressure problem	313.2299547	3	likely bad CO2 sw measurement due to equilibrator
5/2/2007 0:16 xCO2_SW	323.334979	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/2/2007 3:16 xCO2_SW	317.5313422	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/2/2007 6:16 xCO2_SW	285.4233149	3	likely bad CO2 sw measurement due to equilibrator
pressure problem			
5/2/2007 9:16 xCO2_SW pressure problem	276.334767	3	likely bad CO2 sw measurement due to equilibrator
5/2/2007 12:16 xCO2_SW pressure problem	279.0349059	3	likely bad CO2 sw measurement due to equilibrator
5/2/2007 15:16 xCO2_SW	260.9194018	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/2/2007 18:16 xCO2_SW	283.2093864	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/2/2007 21:16 xCO2_SW	269.6344124	3	likely bad CO2 sw measurement due to equilibrator
pressure problem			
5/3/2007 0:16 xCO2_SW pressure problem	249.9803778	3	likely bad CO2 sw measurement due to equilibrator
5/3/2007 3:16 xCO2_SW	252.8542108	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/3/2007 6:16 xCO2_SW	249.2565478	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/3/2007 9:16 xCO2_SW	251.2151331	3	likely bad CO2 sw measurement due to equilibrator
pressure problem			
5/3/2007 12:16 xCO2_SW pressure problem	254.5850157	3	likely bad CO2 sw measurement due to equilibrator
5/3/2007 15:16 xCO2_SW pressure problem	256.232467	3	likely bad CO2 sw measurement due to equilibrator
5/3/2007 18:16 xCO2_SW	261.5965404	3	likely bad CO2 sw measurement due to equilibrator
pressure problem			

5/3/2007 21:16 xCO2_SW pressure problem	254.1601773	3	likely bad CO2 sw measurement due to equilibrator
5/4/2007 0:16 xCO2_SW pressure problem	242.5426865	3	likely bad CO2 sw measurement due to equilibrator
5/4/2007 3:16 xCO2_SW pressure problem	256.3595154	3	likely bad CO2 sw measurement due to equilibrator
5/4/2007 6:16 xCO2_SW pressure problem	264.0542215	3	likely bad CO2 sw measurement due to equilibrator
5/4/2007 9:16 xCO2_SW	282.4128318	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/4/2007 12:16 xCO2_SW	280.7393876	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/4/2007 15:16 xCO2_SW	256.5228629	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/4/2007 18:16 xCO2_SW	258.6099611	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/4/2007 21:16 xCO2_SW	239.1866362	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/5/2007 0:16 xCO2_SW	245.3757244	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/5/2007 3:16 xCO2_SW	269.3501406	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/5/2007 6:16 xCO2_SW	277.8638191	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/5/2007 9:16 xCO2_SW	272.7290278	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/5/2007 12:16 xCO2_SW	278.1166698	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/5/2007 15:16 xCO2_SW	298.8719121	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/5/2007 18:16 xCO2_SW	294.4633247	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/5/2007 21:16 xCO2_SW	291.1476876	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/6/2007 0:16 xCO2_SW	311.0629998	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/6/2007 3:16 xCO2_SW	329.828586	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/6/2007 6:16 xCO2_SW	325.3901064	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/6/2007 9:16 xCO2_SW	295.3933951	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/6/2007 12:16 xCO2 SW	296.4379507	3	likely bad CO2 sw measurement due to equilibrator
pressure problem			
5/6/2007 15:16 xCO2_SW pressure problem	280.888348	3	likely bad CO2 sw measurement due to equilibrator
5/6/2007 18:16 xCO2_SW	312.8323663	3	likely bad CO2 sw measurement due to equilibrator
pressure problem 5/6/2007 21:16 xCO2_SW	382.9161054	4	bad CO2 sw measurement due to equilibrator pressure
problem 5/7/2007 0:16 xCO2_SW	339.6188593	4	bad CO2 sw measurement due to equilibrator pressure
problem 5/7/2007 3:16 xCO2_SW	389.1224938	4	bad CO2 sw measurement due to equilibrator pressure
problem 5/7/2007 6:16 xCO2_SW	359.0387035	4	bad CO2 sw measurement due to equilibrator pressure
problem 5/7/2007 9:16 xCO2_SW problem	376.3837514	4	bad CO2 sw measurement due to equilibrator pressure

5/7/2007 12:16 xCO2_SW 346.239838 4	bad CO2 sw measurement due to equilibrator pressure
problem 5/7/2007 15:16 xCO2 SW 382.9630868 4	had CO2 and magazinement due to applifying a magazine
5/7/2007 15:16 xCO2_SW 382.9630868 4 problem	bad CO2 sw measurement due to equilibrator pressure
5/7/2007 18:16 xCO2_SW 360.8511626 4	bad CO2 sw measurement due to equilibrator pressure
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5/7/2007 21:16 xCO2_SW 341.7837989 4	bad CO2 sw measurement due to equilibrator pressure
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5/8/2007 0:16 xCO2_SW 341.0833878 4 problem	bad CO2 sw measurement due to equilibrator pressure
5/8/2007 3:16 xCO2 SW 347.8050025 4	bad CO2 sw measurement due to equilibrator pressure
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5/8/2007 6:16 xCO2_SW 372.1871069 4	bad CO2 sw measurement due to equilibrator pressure
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5/8/2007 9:16 xCO2_SW 381.3152048 4	bad CO2 sw measurement due to equilibrator pressure
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5/8/2007 15:16 xCO2_SW 351.5873956 4	bad CO2 sw measurement due to equilibrator pressure
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5/8/2007 18:16 xCO2_SW 362.4434137 4	bad CO2 sw measurement due to equilibrator pressure
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5/10/2007 15:16 xCO2_SW 406.4618911	3 likely bad CO2 sw measurement due to
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equilibrator pressure problem	V 407.440	27050	2 likely had CO2 avy magazinamant due to
5/11/2007 21:16 xCO2_SV equilibrator pressure problem	V 407.443	37859	3 likely bad CO2 sw measurement due to
	99.5536496	3	likely bad CO2 sw measurement due to equilibrator
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	03.902418	3	likely bad CO2 sw measurement due to equilibrator
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pressure problem	04.3000442	3	likely bad 602 sw measurement due to equilibrator
5/12/2007 9:16 xCO2_SW 4	10.1945922	3	likely bad CO2 sw measurement due to equilibrator
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5/12/2007 12:16 xCO2_SV equilibrator pressure problem	V 407.106	57688	3 likely bad CO2 sw measurement due to
5/12/2007 15:16 xCO2_SV	V 414.605	52833	3 likely bad CO2 sw measurement due to
equilibrator pressure problem			
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5/12/2007 21:16 xCO2_SV equilibrator pressure problem	V 421.731	10002	3 likely bad CO2 sw measurement due to
	09.5273221	3	likely bad CO2 sw measurement due to equilibrator
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5/13/2007 12:16 xCO2_SV equilibrator pressure problem	V 403.471	15272	3 likely bad CO2 sw measurement due to
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5/14/2007 9:16 xCO2_SW 4	00.0992692	3	likely bad CO2 sw measurement due to equilibrator
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5/14/2007 12:16 xCO2_SV equilibrator pressure problem	V 395.780	วษาธช	3 likely bad CO2 sw measurement due to
5/14/2007 15:16 xCO2_SV	V 402.081	15442	3 likely bad CO2 sw measurement due to
equilibrator pressure problem			

5/14/2007 18:16 equilibrator pressure pro	xCO2_	_SW	385.77	59564	3	likely bad CO2 sw measurement due to
5/14/2007 21:16	xCO2_	_SW	385.22	33291	3	likely bad CO2 sw measurement due to
equilibrator pressure pro 5/15/2007 0:16 xCO2_ pressure problem		386.543	38906	3	likely b	pad CO2 sw measurement due to equilibrator
5/15/2007 3:16 xCO2_	SW	386.79	13082	3	likely b	pad CO2 sw measurement due to equilibrator
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5/15/2007 9:16 xCO2_ pressure problem	SW	390.460	09704	3	likely b	pad CO2 sw measurement due to equilibrator
5/15/2007 12:16	xCO2_	_SW	396.51	87807	3	likely bad CO2 sw measurement due to
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5/16/2007 18:16 equilibrator pressure pre	xCO2_	_SW	409.61	38038	3	likely bad CO2 sw measurement due to
5/16/2007 21:16	xCO2_	_SW	397.35	34579	3	likely bad CO2 sw measurement due to
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6/1/2007 18:16 xCO2_SW pressure problem	363.3005711	3	likely bad CO2 sw measurement due to equilibrator
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6/2/2007 0:16 xCO2_SW pressure problem	397.683957	3	likely bad CO2 sw measurement due to equilibrator
6/2/2007 3:16 xCO2_SW pressure problem	392.7814323	3	likely bad CO2 sw measurement due to equilibrator
6/2/2007 6:16 xCO2_SW pressure problem	356.6080813	3	likely bad CO2 sw measurement due to equilibrator
6/2/2007 9:16 xCO2_SW pressure problem	352.4578483	3	likely bad CO2 sw measurement due to equilibrator
6/2/2007 12:16 xCO2_SW pressure problem	387.0743545	3	likely bad CO2 sw measurement due to equilibrator
6/2/2007 15:16 xCO2_SW pressure problem	394.7580075	3	likely bad CO2 sw measurement due to equilibrator
6/2/2007 18:16 xCO2_SW pressure problem	384.4261908	3	likely bad CO2 sw measurement due to equilibrator
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6/20/2007 0:16 xCO2_5	SVV	437.676	56768	3	likely	bad CO2 sw measurement due to equilibrator
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6/20/2007 21:16	xCO2_	SW	363.02	83277	3	likely bad CO2 sw measurement due to
equilibrator pressure pro			000.02	00211		intery sad CO2 on modernment addition
6/21/2007 0:16 xCO2_5		336.299	94124	3	likely l	bad CO2 sw measurement due to equilibrator
pressure problem						•
6/21/2007 3:16 xCO2_5	SW	365.492	2629	3	likely l	bad CO2 sw measurement due to equilibrator
pressure problem						
6/21/2007 6:16 xCO2_5	SW	415.121	19053	3	likely	bad CO2 sw measurement due to equilibrator
pressure problem 6/21/2007 9:16 xCO2_5	21A/	416.668	20026	3	likolyd	had CO2 aw magaurament due to equilibrator
pressure problem	5 V V	410.000	50936	3	likely	bad CO2 sw measurement due to equilibrator
6/21/2007 12:16	xCO2_	SW	423.01	95169	3	likely bad CO2 sw measurement due to
equilibrator pressure pro			120101	00.00		intery sad 502 on modernment addition
6/21/2007 15:16	xCO2_	SW	445.20	97247	3	likely bad CO2 sw measurement due to
equilibrator pressure pro						
6/21/2007 18:16	xCO2_	_SW	457.52	03249	3	likely bad CO2 sw measurement due to
equilibrator pressure pro		0144	450.00	00005	_	
6/21/2007 21:16	xCO2_	SW	459.69	60695	3	likely bad CO2 sw measurement due to
equilibrator pressure pro 6/22/2007 0:16 xCO2_5		453.977	70803	3	likoly l	bad CO2 sw measurement due to equilibrator
pressure problem	300	455.511	0003	3	likely	bad CO2 sw measurement due to equilibrator
6/22/2007 3:16 xCO2_5	SW	454.329	92376	3	likely l	bad CO2 sw measurement due to equilibrator
pressure problem					- ,	
6/22/2007 6:16 xCO2_5	SW	452.550	05196	3	likely l	bad CO2 sw measurement due to equilibrator
pressure problem						
6/22/2007 9:16 xCO2_5	SW	460.986	55361	3	likely	bad CO2 sw measurement due to equilibrator
pressure problem 6/22/2007 12:16	vCO2	CIM	4E 4 0E	2002	2	likely had CO2 ary magazirament due to
equilibrator pressure pro	xCO2_	_500	454.85	3893	3	likely bad CO2 sw measurement due to
6/22/2007 15:16	xCO2_	SW	451.78	17026	3	likely bad CO2 sw measurement due to
equilibrator pressure pro						
6/22/2007 18:16	xCO2_	SW	455.07	18756	3	likely bad CO2 sw measurement due to
equilibrator pressure pro	oblem					
6/22/2007 21:16	xCO2_	SW	456.33	63337	3	likely bad CO2 sw measurement due to
equilibrator pressure pro		445.055	-0040	_		
6/23/2007 0:16 xCO2_5	SVV	445.955	08313	3	пкету	bad CO2 sw measurement due to equilibrator
pressure problem 6/23/2007 3:16 xCO2_5	SW	442.276	30555	3	likaly l	bad CO2 sw measurement due to equilibrator
pressure problem	J V V	442.27	0000	3	likely	bad CO2 sw measurement due to equilibrator
6/23/2007 6:16 xCO2_\$	SW	450.190	05175	3	likely l	bad CO2 sw measurement due to equilibrator
pressure problem		227.30		-		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
6/23/2007 9:16 xCO2_5	SW	457.619	99742	3	likely l	bad CO2 sw measurement due to equilibrator
pressure problem						

6/23/2007 12:16 x	CO2_SW	459.00)44987	3	likely bad CO2 sw measurement due to
equilibrator pressure prob	olem				
	CO2_SW	458.18	353087	3	likely bad CO2 sw measurement due to
equilibrator pressure prob					
	CO2_SW	486.61	39778	3	likely bad CO2 sw measurement due to
equilibrator pressure prob					
	CO2_SW	465.77	754109	3	likely bad CO2 sw measurement due to
equilibrator pressure prob					
6/24/2007 0:16 xCO2_S\	W 448.7	871442	3	likely	bad CO2 sw measurement due to equilibrator
pressure problem			_		
6/24/2007 3:16 xCO2_S\	W 451.7	290574	3	likely	bad CO2 sw measurement due to equilibrator
pressure problem	450.0		0	191 - 1	1 - 1 - 000
6/24/2007 6:16 xCO2_S\	W 458.6	568969	3	іікеіу	bad CO2 sw measurement due to equilibrator
pressure problem	M 400 4	004540	0	Plant.	h - d 000 d t
6/24/2007 9:16 xCO2_S\	VV 462.4	031543	3	іікеіу	bad CO2 sw measurement due to equilibrator
pressure problem 6/24/2007 12:16 x	CO2 SW	464.70	2000	2	likely had CO2 ay massyrament due to
equilibrator pressure prob	_	461.78	33909	3	likely bad CO2 sw measurement due to
	CO2_SW	450.40	250253	3	likely had CO2 sw measurement due to
equilibrator pressure prob		450.42	20203	3	likely bad CO2 sw measurement due to
	CO2 SW	463.49	71776	3	likely bad CO2 sw measurement due to
equilibrator pressure prob	_	405.43	77 1770	3	likely bad CO2 sw measurement due to
	CO2 SW	457.95	12134	3	likely bad CO2 sw measurement due to
equilibrator pressure prob	_	407.00	712104	3	intery bad 602 3W measurement due to
6/25/2007 0:16 xCO2_S\		434953	3	likely	bad CO2 sw measurement due to equilibrator
pressure problem					
6/25/2007 3:16 xCO2_S\	W 431.7	628154	3	likely	bad CO2 sw measurement due to equilibrator
pressure problem				,	
6/25/2007 6:16 xCO2_S\	W 441.0	428141	3	likely	bad CO2 sw measurement due to equilibrator
pressure problem				•	•
6/25/2007 9:16 xCO2_S\	W 425.9	252477	3	likely	bad CO2 sw measurement due to equilibrator
pressure problem					
	CO2_SW	411.84	106282	3	likely bad CO2 sw measurement due to
equilibrator pressure prob					
	CO2_SW	415.40)58205	3	likely bad CO2 sw measurement due to
equilibrator pressure prob					
	CO2_SW	410.90)94131	3	likely bad CO2 sw measurement due to
equilibrator pressure prob				_	
	CO2_SW	413.43	345027	3	likely bad CO2 sw measurement due to
equilibrator pressure prob			_		
6/26/2007 0:16 xCO2_S\	W 397.2	302003	3	іікеіу	bad CO2 sw measurement due to equilibrator
pressure problem	400.4	000404	0	191 - 1	1 - 1 - 000
6/26/2007 3:16 xCO2_S\	vv 406.4	602134	3	likely	bad CO2 sw measurement due to equilibrator
pressure problem	M 444.0	071700	2	likalı	had CO2 aw magaurament due to assilibrates
6/26/2007 6:16 xCO2_S\ pressure problem	vv 411.U	971788	3	likely	bad CO2 sw measurement due to equilibrator
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